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Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

JobNo: SCE/BBMP/CKG/W.No.14/2022-2023 Date 08.06.2022

GRADATION FOR GSB (Grading V)

Client : **: Assistant Executive Engineer,** Shettyhalli sub Division, BBMP, Bangalore.

Agency: **: Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited),** Contractor, Bangalore.

Name of work: Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing 06.06.2022 to 08.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1485	1485	11.42	88.58	80-100
26.5	2032	3517	27.05	72.95	55-90
9.5	2099	5616	43.20	56.80	35-65
4.75	1741	7357	56.59	43.41	25-50
2.36	3165	10522	80.94	19.06	10-20
0.85	1845	12367	95.13	4.87	2-10
0.425	212	12579	96.76	3.24	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

For Sapience Consultants & Engineers

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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BIS Code: IS 2386 Part (1):1963
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Date of Testing 06.06.2022 to 08.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1432	1432	11.02	88.98	80-100
26.5	2088	3520	27.08	72.92	55-90
9.5	2099	5619	43.22	56.78	35-65
4.75	1874	7493	57.64	42.36	25-50
2.36	3349	10842	83.40	16.60	10-20
0.85	1721	12563	96.64	3.36	2-10
0.425	135	12698	97.68	2.32	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	19.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

For Sapience Consultants & Engineers

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

Authorised Signatory

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BIS Code: IS 2386 Part (1):1963
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Date of Testing 06.06.2022 to 08.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1563	1563	12.02	87.98	80-100
26.5	2085	3648	28.06	71.94	55-90
9.5	2066	5714	43.95	56.05	35-65
4.75	1741	7455	57.35	42.65	25-50
2.36	3155	10610	81.62	18.38	10-20
0.85	1899	12509	96.22	3.78	2-10
0.425	145	12654	97.34	2.66	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	19.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

For Sapience Consultants & Engineers

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing 06.06.2022 to 08.06.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1565	1565	12.04	87.96	80-100
26.5	2074	3639	27.99	72.01	55-90
9.5	2033	5672	43.63	56.37	35-65
4.75	1874	7546	58.05	41.95	25-50
2.36	3166	10712	82.40	17.60	10-20
0.85	1898	12610	97.00	3.00	2-10
0.425	152	12762	98.17	1.83	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.30	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

For Sapience Consultants & Engineers

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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GRADATION FOR WMM

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IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing 13.06.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, grams 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	215	215	2.2	97.9	95-100
22.4	2432	2647	26.5	73.5	60-80
11.2	2048	4695	47.0	53.1	40-60
4.75	1865	6560	65.6	34.4	25-40
2.36	1145	7705	77.1	23.0	15-30
0.600	856	8561	85.6	14.4	8-22
0.075	1241	9802	98.0	2.0	0-5

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IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing 13.06.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, grams 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	207	207	2.1	97.9	95-100
22.4	2513	2720	27.2	72.8	60-80
11.2	2099	4819	48.2	51.8	40-60
4.75	1985	6804	68.0	32.0	25-40
2.36	1184	7988	79.9	20.1	15-30
0.600	532	8520	85.2	14.8	8-22
0.075	1241	9761	97.6	2.4	0-5

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Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	213	213	2.1	97.9	95-100
22.4	2463	2676	26.8	73.2	60-80
11.2	2114	4790	47.9	52.1	40-60
4.75	1899	6689	66.9	33.1	25-40
2.36	1193	7882	78.8	21.2	15-30
0.600	565	8447	84.5	15.5	8-22
0.075	1178	9625	96.3	3.8	0-5

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Date of Testing 13.06.2022

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Oven Dry.Wt, grams 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	201	201	2.0	98.0	95-100
22.4	2488	2689	26.9	73.1	60-80
11.2	2246	4935	49.4	50.7	40-60
4.75	1836	6771	67.7	32.3	25-40
2.36	1182	7953	79.5	20.5	15-30
0.600	578	8531	85.3	14.7	8-22
0.075	1198	9729	97.3	2.7	0-5

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Oven Dry.Wt, grams 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	183	183	1.8	98.2	95-100
22.4	2454	2637	26.4	73.6	60-80
11.2	2273	4910	49.1	50.9	40-60
4.75	1847	6757	67.6	32.4	25-40
2.36	1199	7956	79.6	20.4	15-30
0.600	589	8545	85.5	14.6	8-22
0.075	1252	9797	98.0	2.0	0-5

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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53	0	0	0	100	100
45	153	153	1.5	98.5	95-100
22.4	2652	2805	28.1	72.0	60-80
11.2	2258	5063	50.6	49.4	40-60
4.75	1899	6962	69.6	30.4	25-40
2.36	1210	8172	81.7	18.3	15-30
0.600	579	8751	87.5	12.5	8-22
0.075	1086	9837	98.4	1.6	0-5

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